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Intelligence, Surveillance, and Reconnaissance (ISR) Planning Capability (Presentation/Briefing)

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Human Effectiveness Directorate Cognitive Systems Branch

June 2006

Interim Report for January 2004 to June 2006

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Air Force Research Laboratory Human Effectiveness Directorate Warfighter Interface Division Cognitive Systems Branch WPAFB OH 45433-7604

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ISR Planning Capability

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Jun 2006





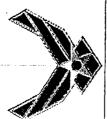


ISR Planning Capability



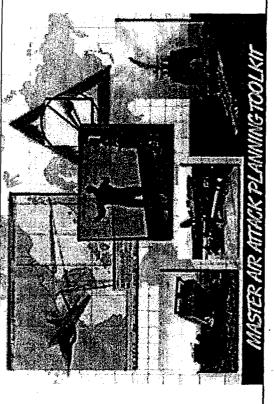
- demonstration of shared battlespace awareness display capability between the ISR and Combat Project Description: Development and Operations Divisions of the AOC.
- What does it do? Conceptual displays to support ATO ISR collection plan execution monitoring, adjustment, and retasking
- Products and benefits to the customer:
- Enhanced capability to visualize actual ISR collection activities and plans in spatial and temporal contexts
- Current Synchronization Matrix is static and referenced only to planned activity over time





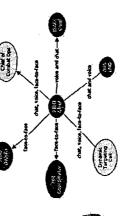
Information Requirements Analysis for Dynamic Management of ISR Assets





Description

- Human-system interface enhancements for MAAP Toolkit / WebTAS to better support ISR collection planning and dynamic ISR management
- Cognitive Task Analysis
- Human-Centered Design and Assessment Methodologies



	Reso	Resource Information	mation	
FY04	FY05	FY06	FY07	FY08
\$250K	\$181K	\$200K	\$250K	\$200K

Milestones:

FY04: Analyses of MAAP TK and WebTAS FY05: Decision Analysis of ISR Managers

FY06: Information Requirements Analysis-

based display concepts and mission scenario

FY07: HSI Concept Designs

FY08: Refined HSI Concepts

Note: Actual FY06 funds = 90% of programmed

Products & Benefits to Customer

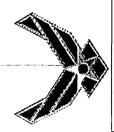
- Improved situation awareness for the planning, monitoring, and control of ISR assets
- Improved decision support for ISR planning and dynamic management
- Improved insight into the impact on ATO execution of sensor re-tasking
- Common tool for Intel and Combat Operations Divisions (in AOC) for ATO generation support



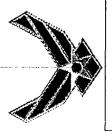












Transition and Follow on Work



Transition:

- ISROE: "Dynamic ISR Warfighter Demonstrations" was approved on 27 Feb 06 for FY07/08 6.3 funding
- Project introduction briefing provided to AFC2ISRC/ISRB/CC
- Commander's Predictive Environment (CPE):
- Possible (Being explored with Dr. Miller)
- Human Factors for the AOC (HF-AOC):
- Possible (Being explored with Mr. Monk for expansion to include Strategy and Combat Plans Divisions)
- Follow on: FY11 start for "Dynamic Multi-Sensor Mission Planning and Exploitation"



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Funding and Execution



OBS: 100%

Expenditures/Invoice: 78% (Cumulative [as of 2/28/06])



